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Progress Report

TRAFFIG SPEED STUDIES PROGRESS REPORT NO. 72

TO: K. B. Woods, Director

Joint Highway Regearch Project

June 21, 1961

FROM:

H. L. Michael, Assistant Director Joint Highway Research Project File No: 8-3-3 Project No: C-36-100

The 72nd progress report on "Traffic Speed Studies" is attached. This report presents the results of the semi-annual speed study made at six locations on state highways in the vicinity of Lafayette, Indiana. The report has been prepared by Mr. Forrest D. Miller, Graduate Assistant on our staff, under the direction of Professor H. L. Michael.

This study is another in a series at these same locations which are made twice annually to determine the trend in average and 85th percentile speeds of passenger cars and trucks at locations where traffic is free-flowing. The results of this study are compared with results of previous studies and little change in average or 85th percentile speeds was noted.

The report is presented for the record. Copies will be sent, as usual for these studies, to the Eureau of Public Roads, the Indiana State Police, and the Office of Traffic Safety.

Respectfully submitted

Thould 2 michael Harold Lo Michael

Secretary

HIMakme

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Progress Report

TRAFFIC SPEED STUDIES

Progress Report No. 72

by

Forrest Miller Graduate Assistant

Joint Highway Research Project

Fila: 8-3-3

Project: C-36-100

Purdue University Lafayette: Indiana

June 21, 1961

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TRAFFIC SPHED REPORT NO. 72

This report covers spot speed observations made during March and April 1961. All observations were made of free moving vehicles on level tangent sections of rural highways. The locations of the stations were the same as for previous studies and are as follows:

- 1. U.S. 52 1.0 mile south of south junction of S.R. 28
 (A-lane highway)
- 2. U.S. 52 1.0 mile west of Klondike (4-lane highway)
- 3. U.S. 52 2.2 miles northwest of Templeton (2-lane highway)
- 4. U.S. 31 7.2 miles north of Perrysburg (2-lane highway)
- 5. S.R. 25 0.7 mile south of Americus (2-lane highway)
- 6. U.S. 41 1.0 mile north of Bosenll (2- lane highway)

The data for this study were collected by using an Electromatic Radar Speed Neter. The meter was concealed as much as possible and was placed near the edge of the pavement. It was directed along the highway at a small angle with respect to the direction of traffic so that it was not necessary to make angle corrections to the readings.

The radar equipment used will not operate properly if the voltage varies more than minus 1/2 wolt or plus 1 volt from the optimum twelve volts. The voltage was therefore checked periodically in the field and maintained within the desired range. Also, correct calibration was maintained by periodically checking it with a 60 mile per hour tuning fork.

The observers concealed themselves from traffic as much as local conditions permitted. It is thus believed that the speeds of the observed wehicles were not influenced by the observers or the equipment.

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A sometry of the remits of the simily, as well as of the last worm studies, is given in Table I. Indiana state Invitation to speed of property case and light tracks (those under 5,000 pounds WW) to AS miles per hour on all highways emaps below highways which have a section with of all most index feer in which were the speed limit is Studies per hour at limit is not feer in which were the speed limit is Studies per hour. This latter were train for thurst has been in arise since show the 1937. That have a well-limit at graduals have restless that all the same of limit as an interest of the same and the speed limit where restless that some interest of the same of lines and limit modifies.

The hope is one shown in the tables for three groups. Upto would not we have a small of the same of the form of the same of th

The paramites per data in most of allocation into three groupes. Indicate out of state, and all paramites care. The electrical or the determined by observing the lineral parameter of the highest parameters of the content of the state of the data of the data

A comparison between the continued the process stary and More of the last previous stary (A.p.) - (1000) to the order in White III through This frames and of the permutate states at each time acquired for the reliable group from the sample of whiches taken at each time of this. III. comparisons made are between his samples to the in this study and comparison in Angust - September 1960.



The average speed for all passenger cars was 0.5 mile per hour factor than that citained in the last study while courts speeds for all trucky was 1.1 miles per hour lower than in August - Sustantes 1960. Indicas passenger cars had an average speed on 2-lane highways 1.0 mile per hour faster while their average on 4-lane highways decreased by 0.6 mile per lower. Out-of-state passenger cars increased thair average speed on 1-lane highways average speed on 1-

The average operation light tracks incomed 0.7 mile per her on 2-lane highways but decreased 0.8 mile per acur on 4-lane highways. For heary tracks the everage speed decreased by 0.6 mile per hour on 3-lane highways and 4.0 miles per land on 4-lane highways and 4.0 miles per land on 4-lane highways.

The dish percentile open for all passinger care increased L4 riles per hour.

Transi influentian on the average opened of personal ears and invaluent on the #5th percentile speed for passinger care in expension in Table I and Figures 7 and 6. Table I is a surrour of eart speed observations in Indiana highways for the last eight studies (since Fey 1957). This content lists the observations for 2-last highways, inlast highways, and all highways for both passenger ours and trader.

Figure 7 is a graph standing and open termine from 1950-1961 for . both passenger care a 6 trucks.

Figure 8 is a graph shoring trands in paraemille eyests and sport differential from 1955—1961 for both passenger cars and nearly trustee. Incompand differential shown is the differential between the 85th paraemille speed of passenger cars and the 15th percentile speed of heavy tracks.



TABLE I

SUMMARY OF SPOT SPEED OBSERVATION

ON INDIANA HIGHWAYS

(Free-Moving Vehicles on Level, Tangent Sections)

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*		li d Mesn	Non-Ind Mean	All Mean	All 85 per	Li.ght Mear.	Heavy Mean	All Mean
The Leas Highways	May 577 Aug. 577 103. 153 104. 153 105. 163 105. 164 105. 105. 105. 105. 105. 105. 105. 105.	55.6 55.5	59.1 56.7 56.3 57.7 55.3 51. 8 55.6	56.9 55.9 55.0 56.1 55.9 53.7 55.6 56.6	64.0 62.1 61.7	50.2 50.7 53.0 50.4 49.7 8.5 53.0	44.8 45.8 46.3 45.4 46.7 45.9 48.1	66-1 67-1 67-1 60-1 60-1 60-0 60-1 60-1 69-1
Four-Lans	May (51) Aug. (57) Aug. (51) Ion. (59) Mar. (60) Supt. (60) 100y. (61)	30 57 58 58 58 10 58 10 58	07.6 39.6 13.7 60.1 .9.7	50,0 5,0 7,0 57,3 57,3 20,0 70,0	31.8 31.6 31.7 61.5 6.0 63.7	5.0 5.0 7.0 7.0 9.1	11.0 11.5 12.0 17.0 17.3 27.3 27.3	48. 48. 49. 48. 52.
LL ILganya	Mar. 157 Aug. 151 Aug. 151 Mac. 157 Aug. 157 Mor. 160 Sunt. 160	57. 0 56. 0 56. 5 56. 5 57. 1 57. 1	60.1 (8.1 17.9 .9.0 30.7 57.1 57.6	30.9 30.9 30.5 37.2 37.4 30.0 37.4 37.4 37.4	60.0 60.1 60.1 60.1 60.5 61.0 61.7 61.7	30.0 6.0 53.4 5.5 10.6 70.3 20.7 70.8	45,3 661, 653 657 1711 4540 4544	1000



Station 1.0 mile south of south junction of SR 28 on US 52

Surface 4 lane divided - 24' Bituminous Concrete This Observation

Date March 17, 1961 Time 2 - 3:40 peme; 4 - 5:20 peme

Weather Cool and clear
Last Previous Observation (Speed Report No.71)
Date August 31, 1960
Time 1:50 - 4:45 p.m.

	SES	ווע	Present	1	. 1	-		1		1			8	-	-		998		1	•	1	1	*	
	BUSSES	٨	I set	1				-	1	1	1	Į.	1	;	-	-				-	1		1	
		5000 pounds	Present	44	6.5.0	58. B	35.1		0.0	0.0		0.0	0,7	0.84	25		3.5		57	11/10 5	58	_	25	
		5000		1	50. R	81. 9 58.8	70.6		2.0	0.0	0-0	0.0	09	51.9	62	1	38	1	50	8 67	99	-	36	
	S	than	Present	19	59.5	9/1.7	89.5	68.1.	1.7.1	21.1	5.3	0.0	12	59.0	72	_	07	1	7	7,09	64.	-	22	1
	TRUCKS	Less than 5000 pounds	Last		6	90.0					5.0	0.0	6	55°4	7/9		44	-	11	52.1	70	. 1	44	1
			Present	116	48.1	64.07	111.0	7,71	7. B	3.4	6 0	0.0	52	50.5					179	1.6.2				
		All	Last	139	51.7	85.6	72.0	29.6	10.3	1.6	0.8	0.0	69	52.3					70	51.1				
		díana	Present	182	61.8		96.7	88.5	8.69	31.9	80	2.2	66	0.19	79		l. 6		83	59.3	78		1,1,	
		Non-Indiana	Last	195	7.09		98.0					2.2	26	61.3	82		177		98	5		-	7.0	-
	PASSENGER CARS	Indiana	Present	339	59.7		93.5	80.0	56.9	20.9	5.3	0.3	174	61,3	78		ריי ביי		165	57.9	74		7'0	
-	PASSEN	Ind	Last	325	409		93.6	81.5	59.7	22.5	6.2	1,3	14.7	61.5	88		46	_	178	59.5	80	1	36	
		ī	Present	521	4.09		94.6	82.9		24.8	6.5	1,0	273	62.3	1				24.8	58.4		1		
		LTA	Last		60,3		95.2		59. B	21.5	6.2	1.5	24/4	61.4					276	2.4				
			OBSERVATION	No. of Vehicles Obs.	Ave. Speed (m.p.h.)	o 45 m.p.h.	90 E 50 m D.h.	n 55 m poh	11 00 m or h	in series	A 20 months	№ 0 75 nop.h.		Ave. Speed (m.p.h.)	Max. Speed (m.p.h.)	State or Type	Min. Speed (m.p.h.)	State or Type			Max. Speed (m.p.h.)	State or Type	Min. Speed (m.p.h.)	State or Type

Station 1.0 mile west of Klondike on U. S. 52

Weather Cool and Clear	Last Previous Observation (Speed Report No. 71) Date August 30; September 2, 1960 Time 2 - 2:20 PM; 1:50 - 4:10 PM	
Surface 4 lane divided - 24' Portland Cement Concrete	This Observation	

523		7	Present			40.00		41.45				40 11	1	8.8	4.0				E P	1	1			1
SESSUE		LIA	Last				-	on my	8	9			1	-						,	8	1	-	
	spunoc	IDO I'VE	Present	121	48.4	74.4	51.2	17.4	1.7	0.0	0.0	0.0	30	49.5	63		30	-	71	46.2	56	1	26	1
	5000 pounds	or	Last		51.9	81.9	67.5	33.8	10.9	0.0	0.0	0.0	54	54.6	779		37,	1	29	6.94	56	- 4	26	-
SI	han	epund	Present	64	51.9	73.5	55.0	34.	13.4	0.0	0.0	0.0	24	53,3	63	***	39	1	25	50.6	64	1	07	:
TRUCKS	Less than	5000 pounds	Last		53.4	80.0	73.3	43,3	33,3	6.7	0.0	0.0	14	50.2	79	-	07	-	1.6	56.3	63	2	32	1
		1	Present	170	7.67	74.1	52.4	22.4	6.5	0.0	0.0	0.0	104	50.4	1	1	1	1	99	47.9			1	
		ALI	Last	113	52,4	81.4	0.69	36,3	16.8	1.8	0.0	0.0	89	53.7	1				54	50.2				
	:	diana	Present	176	60,2		97.2	82.5	54.5	21.6	8.0	2,3	73	63.2	90	-	50	1	103	58.1	73	-	43	
	:	Non-Indiana	Last		0.09		97.0	77.5	54.5	25.5	8,0	0.0	111	61.2	74	1	077	-	39	58.4	72	1	42	-
PASSENGER CARS		Indiana	Present	356	58,2		88.2	72.9	43.0	18.3	5.9	1.7	184	60.1	84		39		172	56.3	77		38	
PASSENC	,	Indi	Last	344	58,6		93.3	75,3	47.4	13.0	6.4	0.9	191	59.7	80		38	1	153	57.2	7/4		0†7	
			ast Present	532	58.9		91.2	75.6	50.2	19.4	9.9		257	61.0		1	-		275	57.0	1	1		1
		ALI	Last	7775	59,1		64.7	76.1	20.0	20.9	6.2	9*0	302	60.2		1			242	57.7				
			OBSERVATION	No. of Vehicles Obs.	Ave. Speed (m.p.h.)	45 m.poho	50 ш.р.р.	55 m.p.h.	40 m 0 h	OX B D P	70 шор. р.	75 mopshs	A No. of Vehicles Obs.	Speed (monoho)	Max. Speed (m.p.h.)	State or Type	Min. Speed (mop.h.)	State or Type	A No. of Vehicles Obs.	Speed (monute)	Max. Speed (m.p.h.)	State or Type	Min. Speed (m.p.h.)	State or Type
			o	No.	AVE	207	(D)	ry (γ γ Λ	ent	ऽस र	%	ON C	S Ave.	Max	2			Se Ci	Ave	Kax	A	Min	



Station 2.2 miles northwest of Templeton on U. S. 52

Weather Cool and	Last Previous Observation (Speed Repor	Date September 1, 1960 Time 2 - 3:40 p.m.
Surface 2 lane - 22' Bituminous Concrete	This Observation	Date March 31, 1961 Time 12:15 - 1:30 pem.

All OBSERVATION Last Present I No. of Vehicles Obs. 345 355 1 Ave. Speed (m.p.h.) 56.8 56.5	Indiana Indiana Isst Present U,9 0,0 56,7 56,3 69,3 89,3 87,9 63,1 65,0					TRUCKS	KS			RISSES	500
All Last Present 345 355 56.8 56.5	Indiana ast Presen 19 140 56-7 56-3 39-3 87-9 53-1 65-0										243
All Last Fresent 345 355 56.8 56.5	Indiana ast Presen 19 140 56-7 56-3 39-3 87-9 53-1 65-0					Less than	than	2000	5000 pounds		
145 355 1 56.8 56.5	.ast Presen. 19 140 56.7 56.3 39.3 87.9 53.1 65.0		Non-Indiana	ALI	1	5000 pounds	spuno	or	or more	ILA	. 1
345 355 1	7 67		Last Present	Last	Present	Last	Present	Last	Present	Last	Present
56.8 56.5		1196 b	215	78	779	5	10	73	36	1	
		56.8	56.6	49.5	48.7	50.9	51.3	1.9.3	1,8,0	-	000 000
				79.5	9.69	80.0	80.0	766	66.7	diame	-
91,9 89,9		93.9	91.2		56.5	1 1	0.09	63.0	55.6	1	1
63.1		7 69	61.9	20.5	19.6	0.04	0.04	19.2	13.9	****	1
37.7	34.3 37.1	33.7	38.1	3 3	2.2	20.0	0.01	2.7	0.0	8	
9.0 7.1	12.2 7.1	6.7	7.0	0.0	0.0	0.0	0.0	0.0	0.0		
8 0	6.2 0.7	1.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	-	ı
0.3		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	1
194 174	00	118	91		16	٦	3	37	13	1	-
5.7 57.h	56.8 57.2	56.6	57.6	1.8.6	46.3	54.0	1.9.3	1,8.4	5.5	1	ł
	76 76	70	70			54.	54.	56	56	-	1
		1									
	36 1,2	30	7.6	1		51,	1,2	30	0	9	1
		1		1			. 1				
181	73 57	78 1	24	04	30	4	7	36	23		-
.9 55.5	56.6 54.9	57.7	55.8	50.3	50.1	50.0	52.1	50.3	7.64	1	1
	72 68	174	70			62	99	09	59	-	1
		1				*	1		-		1
	42	175	42			32	4.3	34	0,		
	1	+	1			1		1	1	١	1



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Station 7.2 miles north of Perrysburg on U. S. 31

Surface 2 lane - 22' Bituminous Concrete This Observation Date April 3, 1961 Time 3:15 - 5:35 p.me

Weather Cool, clear and windy
Last Previous Observation (Speed Report No. 71)
Date September 6, 1960
Time 11:20 a.m. - 12:30 p.m.; 1:15 - 2:40 p.m.

ES		-	Present	1	1	**	1	1		*	-	1	1	-					2 2	3				
SESSUE		ALI	Last.		-	1	1	-	50.00	ł	1	1	ŧ		1				a B	1	1	1		
	5000 pounds	or more	Present	57	1.7.8	68.5	47.4	12.3	5,3	0.0	0.0	0.0	17	1.6.8	61		37		0	18-2	61		32	1
	2000	or	Last	61	1.8.6	78.7	54.	13.2	1.6	0.0	0.0	0.0	28	1.9.3	56		30	-	33	897	09	1	34	1
KS	than	ounds	Present	25	54.6	0.96	72.0	0.87	0.07	8.0	0.0	0.0	13	53. B	99		07	P	21	55.6	67	-	94	
TRUCKS	Less than	5000 pounds	Last		53.1	80.0	68.0	36.0	20.0	8.0	4.0	0 97	10	1.9.3		1	38		15	55.7	80	-	42	1
		1	Present	82	6.67	6.92	54.9	23.2	15.9	2.5	0.0	0.0	30	8-67		1		1	52	6.67				
		TIV	Last	86	6.67	79.1	58.2	19,8	7.1	2.4	1.2	1.2	38	1.9.3			1		817	50.4				
		liana	Present	58	57.4		92.6	75.0	2.6	7.4	7.7	1.5		58.2			3	,	*	55.3	2		0,1	
		Non-Indiana	Last P		58.2 F		93.3 97	4 6 79	27.1	9.5	1.4		26	50.9 E		1	77 97	-	1.8 28	57.3 5	78 70	1	01	1
PASSENGER CARS		ana	Last Present	172	57.1		87.8	62.4	38.0	12.2	5.9	2.2	077	57.3			35		31	56.8	84		38	#
ASSENG		Indiana	Last P	270 2	55.4		79.3	55.9	31,5	9.3	2.2	1.1	119	54.6		1	32	1	151	26.0	- 80	1	O ₄	
I		1	st Present	_	57.1		88.8	6.79	38.9	11.2	5.6	2.1	180	57.5					159	56.7			1	
		ALI	Last	344	0.0	-	-	57.9		7.6	2.0	1.2	14.5 h	55.5					1 99 h			1		
			OBSERVATION	No. of Vehicles Obs.	=	A 45 m.p.h.	2 50 m p h	nd 55 m noho	1 60 m n h	SXC DE BLOOM	м 70 m.р.h.	№ 0 75 mon.h.	No. of Vehicles Obs.	Ave. Speed (m.p.h.)	Max. Speed (m.p.h.)	State or Type	Min. Speed (m.p.h.)		No. of Vehicles Obs.	Ave. Speed (m.p.h.)	Max. Speed (m.p.h.)	State or Type	Min. Speed (m.p.h.)	State or Type
					\$:01	(9)	r Ye	ν	T	[A		ID	n	BC		N		Œ	M	BC		S	



M

Station 0.7 mile south of Americus on SR 25

Surface 2 lane - 22' Bituminous Concrete

This Observation
Date March 16, 1961
Time 10 AM - 12:45 PM

Weather Cool and Clear
Last Previous Observation (Speed Report No. 71
Date September 2, 1960
Time 9 - 11:30 AM

SES		ı	Present	1			1		B 4	2 2	1		-	***			6 1		-	1			•	1
BUSSES		TA AL	Last.	1		91 40	-		-		1	1		-			1	-			;		1	
	spunod 0009	DOILE	Present	93	48.1	75.3	44.1	6.4	0.0	0.0	0.0	0.0	24	0*87	53		35	-	94	48.2	57	-	38	
	2000	or more	Last	62	9*67	82.3	51.8	15.2	5.1	1.3	0.0	0.0	39	51.1	62	1	38	-	07	48.1	99	•	38	1
গ্ৰ	than	ounds	Present	745	54.8	85.7	73.8	38.1	21.4	11.8	4.8	4.8	25	55.4	80		77	8 1	17	53.8	75		36	!
TRUCKS	Less than	5000 pounds	Last	31	56.1	93.5	93.5	58.0	29.0	7.9	3.2	0.0	17	56.2	202	1	77	;	14	56.1	79	1	50	-
		1	Present	135	50.2	78.5	53.3	18.5	6.7	3.7	1.5	1.5	72	9.05		1			63	49.7		1	1	
		ALT.	Last	110	7.16	85.5	63.6	27.2	11.8	2.7	6.0	0.0	95	52.7					75	50.1				١
		Non-Indiana	Present	26	57.5		88.5	61.5	42.3	23.1	7.7	3.8	11	61.5	77	# 1	50	-	15	54.5	69	-	38	
10		Non-Ir	Last	63	58.1		93.6	76.2	44.5	11.2	1.6	0.0	30	8.72	89		07	2	33	58.5	02	1	947	-
PASSENGER CARS		Indiana	Last Present	940	6.95		82.9	8*19	37.4	18.8	7.6	2.6	891	5.72	66	1	38		172	7°95	68		30	1
PASSEN		Ind		337	56.9		6.48	58.4	37.4	15.2	5.9	2.0	154	56.2	92	1	04		183	57.4	88		07	
		ALL	Present	998	0°25		83.3	61.7		161	7.6	2.7	661	8.77			1		187	56.2		1	١	
		A.	Last	007	57.1		86.2	61.2	38.5	14.5	5.2	1.7	184	1 56.4						57.6				
			OBSERVATION	No. of Vehicles Obs.	Ave. Speed (m.p.h.)	no 45 me Dohe	≥ 50 m p.b.	5 2 55 m. D. h.	4 0 m 09	SXC 65 B D D	Д 70 m.p.h.	34 0 75 nop.h.	No. of Vehicles Obs.	Ave Speed (mop.h.)	Max. Speed (m.p.h.)	State or Type	Min. Speed (mon.h.)	State or Type	No. of Vehicles Obs.	Ave. Speed (m.p.h.)	Max. Speed (m.p.h.)	State or Type	Min. Speed (m.p.h.)	State or Type
				_		101	[5]	, u	ÞΛ	T	[A	<i>p</i> '	di	n	BC	ı			Œ	IU	BC	_ (

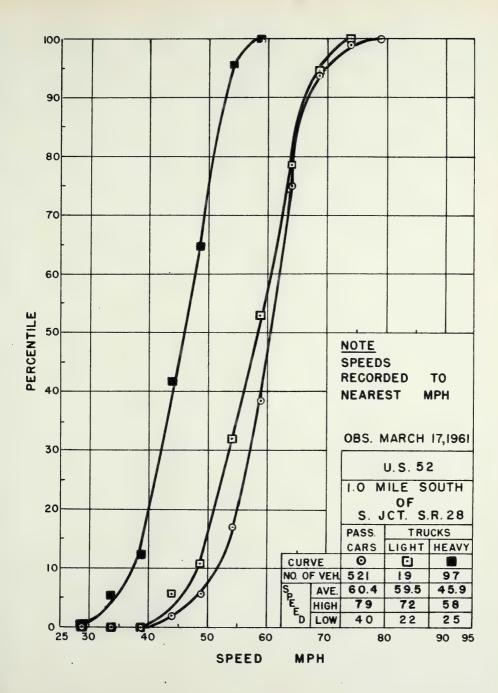


Station 1.0 mile north of Boswell on US 41

Weather Gool and Cloudy	Last Previous Observation (Speed Report No. 71) Date September 1, 1960 Thme 10:20 AM - 1:05 PM	
Surface 2 lane - 22' Portland Cement Concrete	This Observation Date March 31, 1961 Time 9:30 - 11:10 AM	

SES	=	Present	•			W ==	1.		;	1	;	-	•	*	1	9		-		-		-	
BUSS	A		1	-	8	-	:	1	-	1	1	1	9 8	1	١	8	1	1	-	1	1	-	
	spunoc	Present	36	6.44	47.2	22.2	11.11	0.0	0.0	0.0	0.0	20	45.1	57		36	. 1	16	44.7	56	-	34	
TRUCKS	5000 I	Ī		45.6	6.09	31.5	5.5	1.1	0.0	0.0	0.0	24	44.9	09	-	32	. 1	45	7.97	56	!	30	1
	than	Present	16	50.7	81.2	68.7	25.0	6.2	0.0	0.0	0.0	9	50.7	75		97	;	10	50.7	9		38	1
	Less 5000 p	Last		47.6	58.8	41.2	23.6	0.0	0.0	0.0	0.0	9	44.8	52	-	36	<u>.</u>	11	0.64	53	1	33	1
	1	Present	52	46.7	57.7	36.5	15.4	1.9	0.0	0.0	0.0	56	46.3				1	26	7.00				1
	A	Г		45.9	9.09	33.0	8.2	6.0	0.0	0.0	0.0	53	6.44	1				99	6.94				
	diana	Present	200	55.8		91.5	62.0	27.5	20.0		0.0	20	56.1	72	8 8	4.1	1	150	55.7	63	-	07	2 8
	Non-Ir	1	j	51.8		63.3	33.8	10.9	3.0	0.0	0.0	7/4	53.8	99	2	07	1	92	50.3	99	1	36	
ER CARS	ane	Present	143	55.6		83.2	60.1	27.3	6.3	2.8	1.4	43	57.4	81		07		100	54.8	72		07	*
PASSEN	Indi			51.6		9.59	31.9	10.5	1.7	0.0	0.0	67	53.5	68	١	32		29	50.2	99	1	07	
	n	Present	343	55.7			61.2	27.4	5.5	1.5	9.0	93	56.7		1		1	250	55.4				
	¥	I	1	51.7		64.2	33.0	11.6	2.5	0.0	0.0	123	53.7			-	1	159	50.2		1		
1		OBSERVATION	No. of Vehicles Obs.	Ave. Speed (m.p.h.)	by 45 mapaha	2 50 m p.h.	F S manaha	1 60 m p b	SX 65 m m h	А 70 m.p.h.	ве о 75 пор.h.	No. of Vehicles Obs.	Ave. Speed (m.p.h.)	Max. Speed (m.p.h.)	State or Ivpe	Min. Speed (m.p.h.)	State or Type	No. of Vehicles Obs.	Ave. Speed (m.p.h.)	Max. Speed (m.p.h.)	State or Type	Min. Speed (m.p.h.)	State or Type
	PASSENGER CARS	All Indiana Non-Indiana All 5000 pounds or more	All Indiana Non-Indiana All 5000 pounds All 5000 pou	All Indiana Non-Indiana All 5000 pounds Or more Last Present Last Pre	All Indiana Non-Indiana All SOOO pounds SOOO pounds SOOO pounds SOOO pounds All Al	All Indiana Non-Indiana All 5000 pounds All All All All All 5000 pounds All All	All Indiana Non-Indiana All 5000 pounds All 5000 pou	Non-Indiana All Indiana Non-Indiana All Less than 5000 pounds All Indiana Indiana Indiana All Indiana Indiana All Indiana Al	All Indiana Non-Indiana All Less than 5000 pounds BUSS	All Indiana Non-Indiana All Less than 5000 pounds BUSS	All Indiana Non-Indiana All Less than 5000 pounds BUSS	All Indiana Non-Indiana All Less than 5000 pounds BUSS	All Indiana Non-Indiana All Less than 5000 pounds Discriptions Discriptions All Indiana Indiana All Indiana Indiana	All Indiana Non-Indiana All Less than 5000 pounds Less than 5000 pounds Less than 5000 pounds Less than Solid pounds Less than Less than	Non-Indiana All Indiana Non-Indiana All Less than 5000 pounds All Less than 5000 pounds All Last Present Last P	Non-Indiana All Indiana Non-Indiana All Less than 5000 pounds Al	Aliana	All Indiana Non-Indiana All 5000 pounds Buss	All Indiana Non-Indiana All Scoto pounds All Scoto pounds	All Indiane Non-Indiane All Soop pounds All Soop pounds All Indiane Non-Indiane All Soop pounds All All	Alignate Alignate	All Indiane Non-Indiane All Solo pounds All All	All Indiana Non-Indiana All Scot pounds All Scot pounds All Indiana Indiana Indiana All Scot pounds All Indiana In







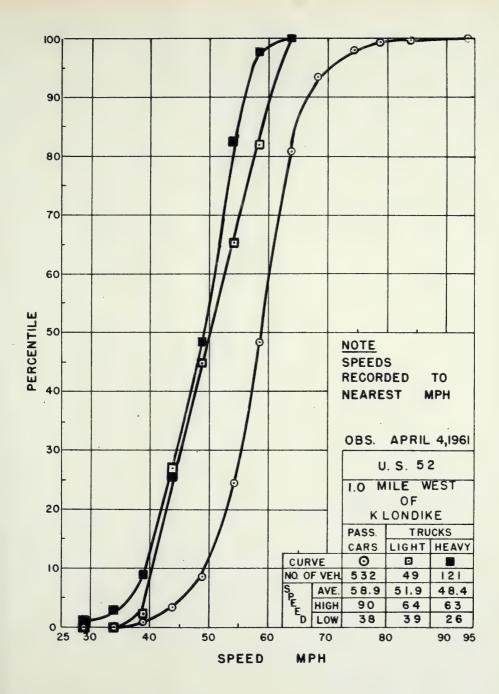
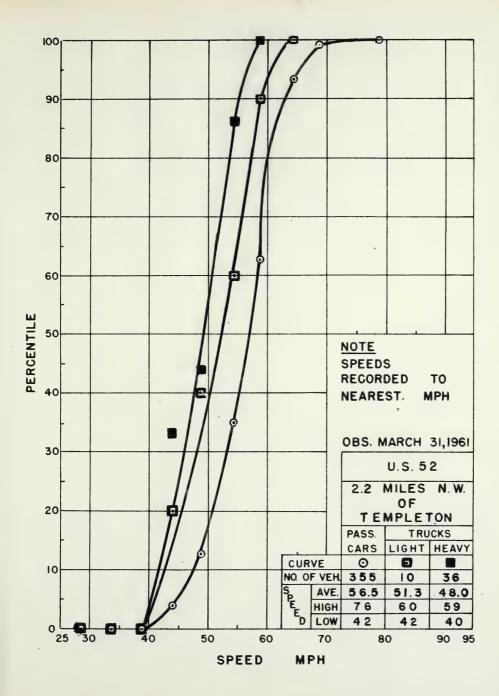


FIGURE 2







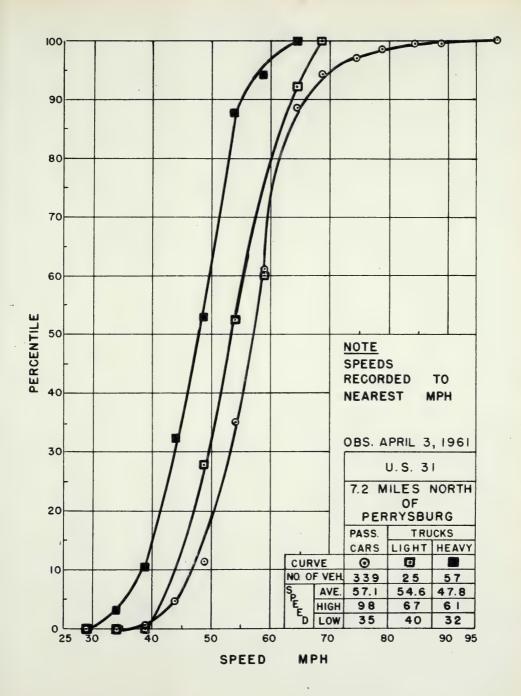


FIGURE 4



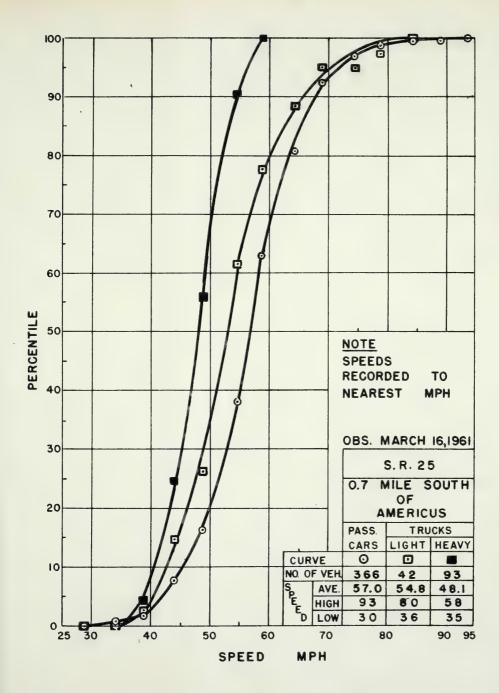
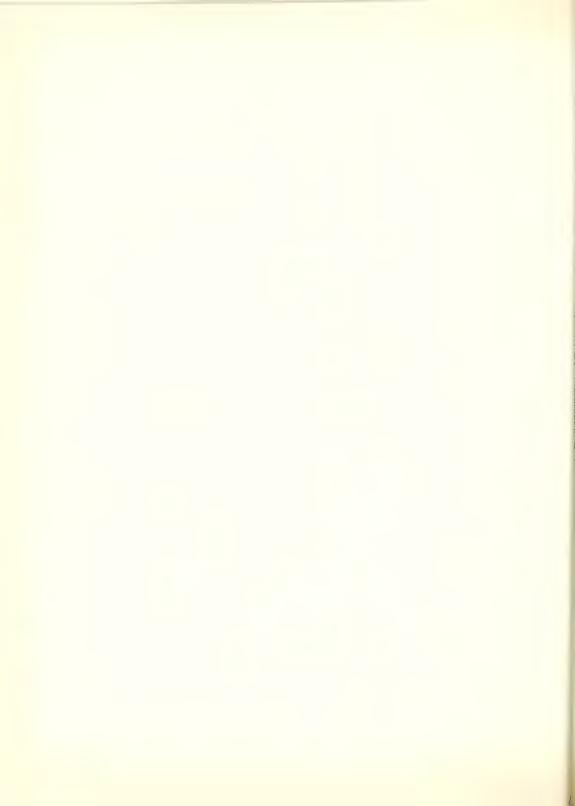


FIGURE 5



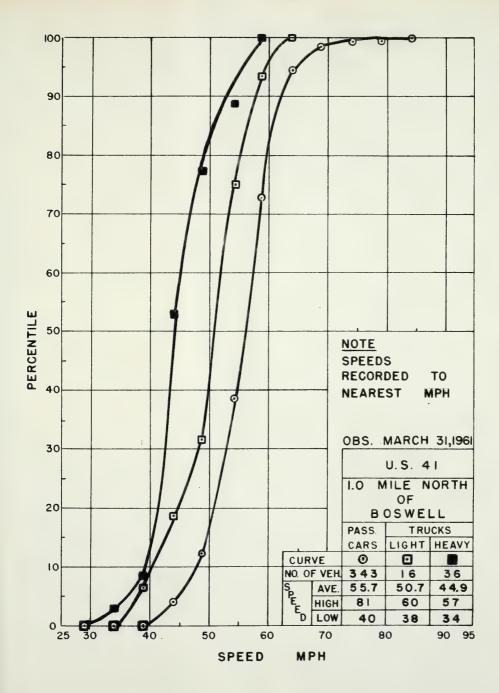


FIGURE 6



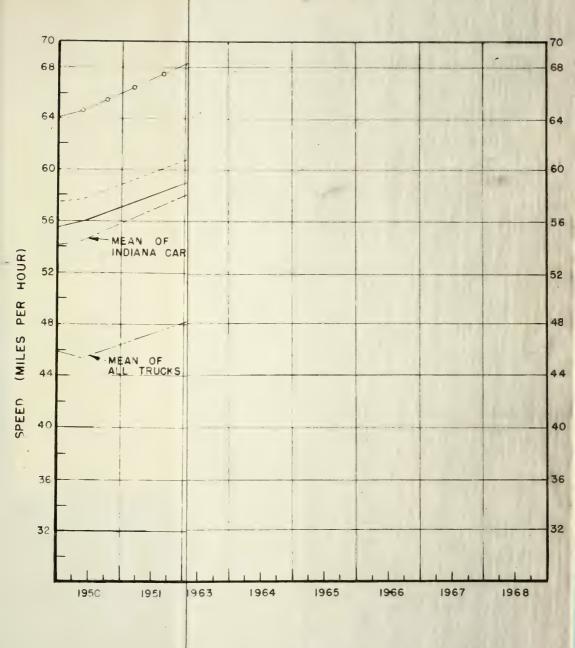
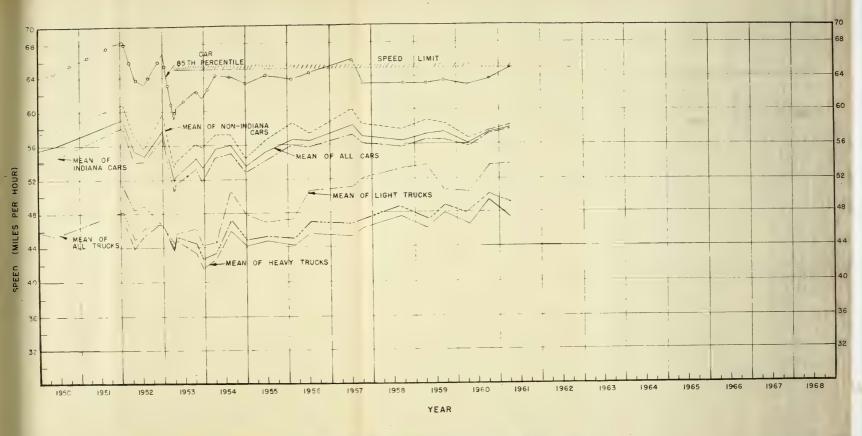


FIG. 7





INDIANA RURAL SPEED TRENDS 1950-1961



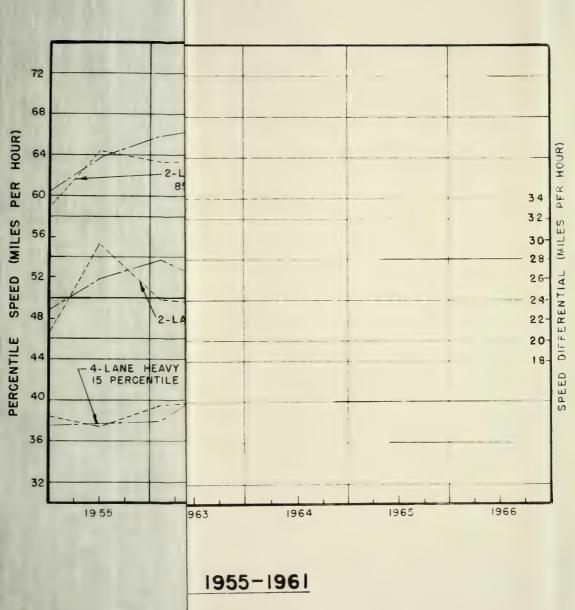
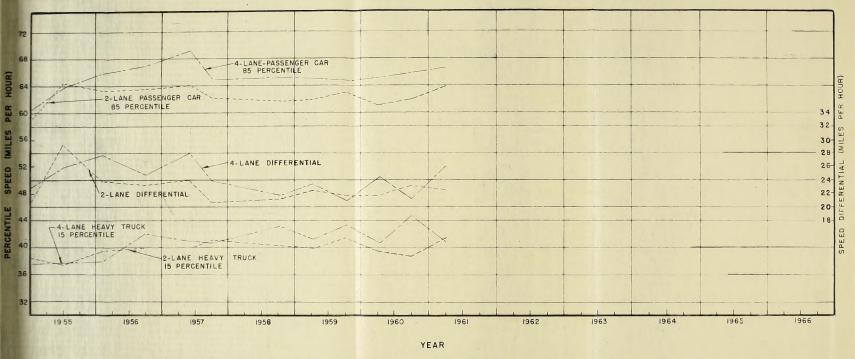


FIG. 8





TRENDS IN PERCENTILE SPEED & SPEED DIFFERENTIAL 1955-1961



